SBA SHIPYARDS, INC. PROBABLE SOURCES OF CONTAMINANTS CURRENTLY PRESENT IN TANKS AND PITS					
COMPANY	DATE(S)*	VESSEL NUMBER	PREVIOUS 3 CARGOES		
Allied Towing	8/21/85	Kelly	Asphalt, Bunker C		
	4/21/86	Kelly	Asphalt		
	8/1/86	1-50	Caustic Soda		

^{* -} Based on date from Marine Chemist's Gas Free Certificate

P. O. Box 3602 Beaumont, Texas 77704 (409) 832-6409, 866-4822, 866-4223

MARINE CHEMIST CERTIFICATE SERIAL NO. B135146

W 0 - 911 SBA SHIPYARD

8 21/85

Survey Requested by KELLY	Vessel Owner or Agent TANK BARGE	SBA MERMENTAU S Y
ASPHALT, BUNKER C	Type of Vessel JW COMB	Specific Location of Vess 4:00 PM
ast Three (3) Cargoes	Test Method	Time Survey Complete
CARGO TANKS 1=5	less than 5% LEL,	some residue, secured
FORWARD RAKE P&S		
	WORKERS, WITH V	ENTI LATION
AETED DAVE DODT SIDE		mpound H type coating, SAFE FOR
AFTER RAKE, FURT STUG-	of LEL, Some Co	mpaulio ii type coating, said for
	WORKERS, WITH	VENTI LATION
AFTER RAKE, STBD SIDE	The second secon	m over water, SAFE FOR WORKERS,
	WITH VENTILATIO	n.
ACTED DIMED BOOM	09/ 151 _:1 :	n bilges, SAFE FOR WORKERS, WITH
AFTER POMP ROOM	VENTILATION	n bilges, SAFE FOR WORKERS, WITH
WING DOUBLE BOTTOMS 1 P&S, 55-	SAFE FOR WORKE	RS, SAFE FOR HOT WORK WITH AIR
	VENTILATION	
WING DOUBLE BOTTOMS 2P&S, 3P&	S, 4P&S, 5P, 6P&S-0% LEL, some	product residue, put awater over
		nen SAFE FOR HOT WORK on outside
SAFE FOR HOT WORK ON MAIN DE		ld nipple to drill hole.

In the event of any physical or atmospheric changes adversely affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist.

QUALIFICATIONS: Transfer of ballast or manipulation of valves or closure equipment tending to alter conditions in pipe lines, tanks or compartments subject to gas accumulation, unless specifically approved in this Certificate, requires inspection and endorsement or reissue of Certificate for the spaces so affected. All lines, vents, heating coils, valves, and similarly enclosed appurtenances shall be considered "not safe" unless otherwise specifically designated.

STANDARD SAFETY DESIGNATIONS (partial list, paraphrased from NFPA 306-1980, Subsections 1-6.1 through 1-6.4, and Subsection 5-3.2).

SAFE FOR WORKERS: Means that in the compartment or space so designated: (a) the oxygen content of the atmosphere is at least 19.5 percent by volume; and that, (b) toxic materials in the atmosphere are within permissible concentrations; and that, (c) the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Marine Chemist's Certificate.

NOT SAFE FOR WORKERS: Means that in the compartment or space so designated, the requirements of Safe for Workers has not been met.

SAFE FOR HOT WORK; Means that in the compartment so designated: (a) oxygen content of the atmosphere is at least 19.5 percent by volume, with the exception of inerted spaces or where external hot work is to be performed; and that, (b) the concentration of flammable materials in the atmosphere is below 10 percent of the lower flammable limit; and that, (c) the residues are not capable of producing a higher concentration than permitted by (b) above under existing atmospheric conditions in the presence of fire, and while maintained as directed on the Marine Chemist's Certificate; and further, that, (d) all adjacent spaces containing or having contained flammable or combustible materials have been cleaned sufficiently to prevent the spread of fire, or are satisfactorily inerted, or, in the case of fuel tanks or lube oil tanks or engine room or fire room bilges, have been treated in accordance with the Marine Chemist's requirements.

NOT SAFE FOR HOT WORK: Means that in the compartment so designated, the requirements of Safe for Hot Work have not been met.

SAFE FOR REPAIR YARD ENTRY: Means that the compartments and spaces of the flammable cryogenic liquid carrier so designated: (a) have been tested by sampling at remote sampling stations, and results indicate the atmosphere to be above 19.5 percent oxygen, and less than 10 percent of the lower flammable limit, or (b) are inerted.

CHEMIST'S ENDORSEMENT. This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306-1980 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

"The undersigned acknowledges receipt of this Certificate under Section 2-3 of NFPA 306-1980 and understands conditions and limitations under which it was issued

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Signed_

20M-2-83-AP

Date

Signed_

Certificate No

NOTE: THIS CERTIFICATE IS VALID ONLY ON MARINE VESSELS

MANTE CHAMMOT CENTILITICATE **SERIAL NO. D** 18633

Survey Requested by	HELED LOUBERCE Vessel Owner or Agent	4-21-86 Date LA
	Vessel Owner or Agent	Date L/s
Vossel	Type of Vessel	5 13 14 JENNING. Specific Location of Vest
	Type of Vessel	
FI < DHALT Lasi Three (3) Cargoes	Oz/LEL/VISUAL	9: 45 And Time Survey Complet
Lest (17 delignes	(vol mough	raine Survey Complet
BOW RAKE VOIDS	P/S SAFE FOR WORK P/S CORTED WITH EN	LERS
STERN RAKE VOIDS	P/S / CORTED WITH EA	LREKA TRESERVATICA
No. 1 Double Borro	m (STBD) SAFE FOR WORD	KLRS
	SAFE FOR HOTE	lorx
DoubLE BOTTOMS		
No. 1 P/2P/5/3	PLS /4 PLS/5 PLS/6 PLS] - SAI ASPHA	E FOR WORKERS
11	TSPHA.	LT BOTTOMS
CARGO YANKS	SAFE FOR	HOTHORX WITH
No. 1-2.3-4-5	AREA CLERY	ED OR COUNTED
	WITH FIRE	RETARDANT
Tumo Room		WAY o HOWER
		WITH CHARGE
[K1-14]	FIRE HOSE RE	OD, ON STAND-BY
Vente To Paper Tall	5- SAFE FOR HOWER WITH	PLUG IN
	S- SAFE FOR HONDORK WITH	PIPE
YORTHALE AND VENTIL	MITION REGDI IN WORK TA	NK.
In the event of any physical or atmo-	spheric changes adversely affecting the STANDARD SAFETY ny doubt, immediately stop all work and contact the undersign	DESIGNATIONS assigned
subject to gas accumulation, unless specifically affected. All lines, vents, heating coils, valve designated.	ripulation of valves or closure equipment tending to alter conditions in y approved in this Certificate, requires inspection and endorsement or release, and similarly enclosed appurtenances shall be considered "not s	ssue of Certificate for the spaces so afe" unless otherwise specifically
•	t, paraphrased from NFPA 306 Subsections 1-6.1 through 1-6.4, and Subsections 1-6.1 through 1-6.4 through	- ·
	artment or space so designated: (a) the oxygen content of the atmosphere is at irmissible concentrations; and that, (c) the residues are not capable of producing to	

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CHEMIST'S ENDORSEMENT. This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

"The undersigned acknowledges receipt of this Certific	Ste under Section 2-3 of NFPA	4 306 II	his Certificate is	based on co			e inspection nerem set
and understands conditions and lumitations under which	II was issued "	fo	irth was complete	d and is is	sered subject to c	ompliance with	h all qualifications and
	A	A 4 111	structions.			111	, <i>y</i>
	1011			•			/
			. / ///				·
1 1 1 2 1 1 1	1100	4171		- I		- 	
Signed Signed		7/4/		and I	and it is the second	I Ci.	Market 19 Miles
- 0			3	U you			Certificate No
Name asimum (Company		Date	Mark	ne Chemist	/	CERTIFICATION 140
						24"	

W.O. # 978

SERIAL NO. D 18787

SBA S. Y. " Survey Requested by	A L J J J J J J J J J J J J J J J J J J	8-1-86 Date
Survey Requested by . * * * * * * * * * * * * * * * * * *	· · · · · · · · · · · · · · · · · · ·	Sal Jayants
Votool (1)	TANK BARGE	poetine cocation or var
7-50 Vescoi 100 100 100 100 100 100 100 1	Oz/Lity Visual	3:00 Pm
ast Three (3) Cargoes	Test Marthod	Time Survey Comple
BOW RAKE VO	(10)	
VOID AFT OF 13	ENKE \	
COz Compt. (SAFE FOR WOR	·
STERN RAKE US	SAFE FOR HON	JORK
CO2 Compt. CA	(1) SAFE FOR HOST	on REGD. IN USE TO
VOID, FORWARD OF	- STEEN RAKE - O'S LEL CHECKED THE CLUBBLE TO OPEN	1 20.8 % ONDER
	CHECKED THE	HATCH
ARGO LANKS # 1-	2-3-4 P/s	JAR WORKERS
	COFFERDAMS PLS SAFE	
WING VOID D.	13.10 P/S- O'h Lit / 20,8 % OX NOT SAFE FOR WORKES- IF FOR HOTWIRK ON EXTERNA	
1-2-3-4-5	P/5- 06 Lik / 20,8 % OX	V BEN
	NOT SAFE FOR WARRES.	SOME CAUSIC SODA
THIS VESSEL IS SAF	FOR HOTWORK ON EXTERNA	L SHELL MUD ON
OPON DECK.		

In the event of any physical or atmospheric changes adversely affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist.

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The undersigned acknowledges receipt of this catument pertion 5-3 of Mark 300	IIII) CALIIIICALE IS MOSOU	OH COMMITTIONS	at the time the maponion management
and understands conditions and limitations under which it was issued."	forth was completed and	is issued subject to	compliance with all qualifications an
Date / Sel	O/4/O/		1/101
Signed Signed	7/106 Signed	Theore IX	/ / /eice 5.
Name Company	Date	Manne Chemist	Certificate No.
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